Feature Article

Why and how to study a snowcover — WILLIAM O. PRUITT, JR. 118

Notes

Découverte de la salamandre à quatre doigts, *Hemidactylium scutatum*, à Québec, Québec: limite nord-est de l'espèce sur la rive nord du fleuve Saint Laurent — DANIEL POULIOT et JEAN-FRANCOIS DESROCHES 129

Use of a bridge for day roosting by the Hoary Bat, *Lasiurus cinereus* — PAUL HENDRICKS, JOSEPH JOHNSON, SUSAN LENARD, and COBURN CURRIER 132

Aggressive behaviour exhibited by a San Joaquin Swift Fox, *Vulpes macrotis mutica* — HOWARD O. CLARK, JR. 134

An ancient Wolf, *Canus lupus,* den and associated human activity in the southwestern Yukon Territory — RICHARD FARNELL, P. GREGORY HARE, and DANIEL R. DRUMMOND 135

Capillate Watermeal, *Wolffia brailiensis* in eastern Ontario: An addition to the flora of Canada — E. R. THOMSON 137

Record size female Coyote, *Canis latrans* — JONATHAN G. WAY and ROBERT L. PROIETTO 139

Book Reviews

ZOOLOGY: Amphibiens et reptiles du Quebec et les maritimes — Mammals of Australia — Birds of the Raincoast: Habits and Habitat — The Bird Almanac: A Guide to Essential Facts and Figures of the World's Birds — Common Birds of Ontario — Frogs of Australia: An Introduction to their Classification, Biology and Distribution — Experimental Approaches to Conservation Biology — Gulls of North America, Europe, and Asia — The Monarch Butterfly: Biology and Conservation — The Behavior and Ecology of Pacific Salmon and Trout — Venomous Reptiles of the Western Hemisphere — Whales and Dolphins of the World 141

BOTANY: Atlas des Plantes Villages du Nanavik – Atlas of Plants of the Nunavik Villages 150

ENVIRONMENT: Boreal Forest of Canada and Russia — Democracy's Dilemma: Environment, Social Equity, and the Global Econony — Emulating Natural Forest Landscape Disturbances: Concepts and Applications 150

MISCELLANEOUS: The Nature Journal: A Handbook 154

NEW TITLES 155

News and Comment

Marine Turtle Newsletter (107) — *Froglog* (67) February 2005: last printed issue — New Canadian Journal: *Wildlife Afield* (1 & 2) 156

Advice to Contributors 158

Mailing date of the previous issue 118(4): 3 March 2006

Articles

Cronology of range expansion of the Coyote, *Canis latrans*, in New York
HEATHER M. FENER, JOSHUA R. GINSBERG, ERIC W. SANDERSON, and MATTHEW E. GOMPPER

Nesting behavior, ecology, seasonal and geographic variation of the Sand Wasp, *Stictiella emarginata* (Hymenoptera, Sphecidae) FRANK E. KURZEWSKI and HUGH F. BOYLE

Environment and distribution of age 0 fishes in River Canard, a lowland Ontario river
JOHN K. LESLIE and CHARLES A. TIMMINS

Charophytes of insular Newfoundland II: *Chara evoluta* and *Chara canescens*
HENRY MANN and E. M. V. NAMBUDIRI

The effect of human activity on ant species (Hymenoptera: Formicidae) richness at the Mont St. Hilaire Biosphere Reserve, Quebec
JONATHAN Z. SHIK, ANDRE FRANCOEUR, and CHRISTOPHER M. BUDDLE

Seasonal diets of Newfoundland Martens, *Martes americana atrata*
JOHN W. GOOSE and BRIAN J. HEARN

Pollination and breeding system of Lowbush Blueberries, *Vaccinium angustifolium* Ait. and *V. myrtilloides* Michx. (Ericacaeae) in the boreal forest
MASAYUKI USUI, PETER G. KEVAN, and MARTYN OBBARD

Productivity of Osprey, *Pandion haliaetus*, nesting on natural and artificial structures in the Kawartha Lakes, Ontario, 1991-2001
PAMELA A. MARTIN, SHANE R. DE SOLLA, PETER J. EWINS, and MICHAEL E. BARKER

Effects of wetland creation on breeding season bird use in boreal eastern Ontario
DAVID A. LOCKY, J. CHRIS DAVIES, and BARRY G. WARNER

Lichen trimlines in Peace-Athabasca Delta: Variations in flora, form, and disturbance regime
KEVIN P. TIMONEY and JANET MARSH

Identification of a marine green alga *Percursaria percursa* from hypersaline springs in the middle of the North American continent
KATHLEEN L. LONDRY, PASCAL H. BADIOU, and STEPHEN E. GRASBY

New distributional records of *Calligrapha* species (Leaf Beetles) in North America (Coleoptera, Chrysomelidae, Chrysomelinae) JESUS GOMEZ-ZURITA

Weight-carrying ability and caching behavior of Gray Jays, *Perisoreus cacadensis:* Adaptions to boreal winter LYNN L. ROGERS

Premières mentions et réparation de la Salamandre sombre du Nord, *Desmognathus fuscus*, sur la rive nord du fleuve Saint-Laurent, au Québec
JEAN-FRANCOIS DESROCHES et DANIEL POULIOT 1

First records of Long-beaked Common Dolphins, *Delphinus capensis*, in Canadian waters
JOHN K. B. FORD 1

Occurrence, composition and formation of *Ruppia*, Widgeon Grass, balls in Saskatchewn Lakes
RANDY W. OLSON, JOSEPH K. SCHMUTZ, and U. THEODORE HAMMER 1

(continued on inside back cove

ISSN 0008-3550

Notes

Apparent predation by Gray Jays, *Perisoreus canadensis*, on Long-toed Salamanders, *Ambystoma macrodactylum*, in the Oregon Cascade Range
MICHAEL P. MURRAY, CHRISTOPHER A. PEARL, and R. BRUCE BURY 291

Territorial behavior in Belted Kingfishers, *Ceryle alcyon*, during fall migration
MICHAEL J. HAMAS 293

First record of age 0+ Atlantic Whitefish, *Coregonus huntsmani*, from the wild
D. J. HASSELMAN, PHILLIP LONGUE, R. G. BRADFORD 294

Passage through a small drainage culvert by Mule Deer, *Odocoileus hemionus*, and other large mammals ALISSA KRAWCHUK, KARL W. LARSEN, RICHARD D. WEIR, and HELEN DAVIS 296

Book Reviews

ZOOLOGY: Birds of Azerbaijan — Birds of New Brunswick: An Annotated List — Fishes of the Great Lakes Region Revised Edition — Seabirds and Atlantic Canada's Ship-Source Oil Pollution — Spiders of Australia: An Introduction to their Classification, Biology and Distribution — Annotated Bibliography of Quaternary Vertebrates of Northern North America with Radiocarbon Dates — White as a Ghost: Winter Ticks and Moose — Lewis and Clark on the Great Plains: A Natural History — Waterfowl of Eastern North America — Wolves: Behavior, Ecology, and Conservation 298

BOTANY: Rendezvous with the Wild: The Boreal Forest 308

ENVIRONMENT: The Earth's Blanket: Traditional Teachings for Sustainable Living — Greenpeace: How a Group of Journalists, Ecologists and Visionaries Changed the World — The Last Great Sea: A Voyage through the Human and Natural History of the North Pacific Ocean — Quantitative Conservation Biology: Theory and Practice of Population Viability Analysis — Their Father's Work: Casting Nets with the World's Fishermen 309

MISCELLANEOUS: How the Earthqake Bird Got its Name and Other Tales of an Unbalanced Nature 316

NEW TITLES 317

News and Comment

Marine Turtle Newsletter (108) — *The Boreal Dip Net/ L'Epuisette Boreale* 9(1) April 2005 — *Ontario Natural Heritage Information Centre Science and Information Newsletter* 10(1) Winter 2005 — CITES Control List 2005 — 42nd North American Moose Conference, 12-16 June 2006 — Erratum *The Canadian Field-Naturalist* 119(1) 319

Editor's Report for Volume 118 (2004) 321

Mailing date of the previous issue 119(1): 6 June 2006

Articles

The influence of thermal protection on winter den selection by Porcupines, *Erethizon dorsatum*, in second-growth conifer forests — Todd N. Zimmerling 159

Black Bear, *Ursus americanus*, ecology on the northeast coast of Labrador — Keith Chaulk, Soren Bondrup-Nielsen, and Fred Harrington 164

Long-tailed Weasel, *Mustela frenata*, movements and diggings in Alfalfa fields inhabited by Northern Pocket Gophers, *Thomomys talpoides* — Gilbert Proulx 175

Long-tailed Duck, *Clangula hyemalis*, eider, *Somateria* spp., and scoter, *Melanitta* spp., distributions in central Alaska Beaufort Sea Lagoons, 1999-2002 — Lynn E. Noel, Stephen R. Johnson, and Gillian M. O'Doherty 181

Winter habitat use by Moose, *Alces alces*, in central interior British Columbia — Gilbert Proulx and Rhonda M. Kariz 186

Facts from faeces: prey remains in Wolf, *Canis lupus*, faeces revise occurrence records for mammals of British Columbia's coastal archipelago — Michael H. H. Price, Chris T. Darimont, Neville N. Winchester, and Paul C. Paquet 192

Attempted predation of a child by a Gray Wolf, *Canis lupus*, near Icy Bay, Alaska — Mark E. McNay and Philip W. Mooney 197

Post-reproductive Pacific salmon, *Oncorhynchus* spp., as a major nutrient source for large aggregations of gulls, *Larus* spp. — K. S. Christie and T. E. Reimchen 202

Microhabitat characteristics of Lapland Longspur, *Calcarius lapponicus*, nests at Cape Churchill, Manitoba — Clint W. Boal and David E. Andersen 208

Novel surface feeding tactics of Minke Whales, *Balaenoptera acutorostrata*, in the Saguenay-St. Lawrence National Marine Park — Katie J. Kuker, Jordan A. Thomson, and Ursula Tscherter 214

First record of the Plains Minnow, *Hybognathus placitus*, in Canada — R. M. Sylvester, S. E. Freeling, and C. R. Berry. Jr. 219

Identification and stutus of Black Pine, *Pinus nigra*, and Mugo Pine, *Pinus mugo*, in Ontario — Paul M. Catling 224

A potential for the use of dragonfly (Odonata) diversity as a bioindicator of efficiency of sewage lagoons — Paul M. Catling 233

Invasive Scots Pine, *Pinus sylvestris*, replacing Corema, *Corema conradii*, heathland in the Annapolis Valley, Nova Scotia — Paul M. Catling and Susan Carbyn 237

Insect visitation to wildflowers in the endangered Garry Oak, *Quercus garryana,* Ecosystem of British Columbia — A. L. Parachnowitsch and E. Elle 245

An annotated checklist of the spiders of Newfoundland — J. R. Pickavance and C. D. Dondale 254

Additions and range extensions to the vascular plant flora of the continental Northwest Territories and Nunavut, Canada III — William J. Cody and Kenneth L. Reading 276

(continued on inside back cover)

ISSN 0008-3550

Notes

Possible tool use by Beavers, *Castor canadensis*, in a northern Ontario watershed — D. M. Barnes 441

Predation of a bat by American Crows, *Corvus brachyrhyncos* — Kara L. Lefevre and Christopher R. T. Sulway 443

Mortality of Deer Mice, *Peromyscus maniculatus*, in wire mesh live-traps: A cautionary note — Thomas S. Jung and Kieran S. O'Donovan 445

Longevity and productivity of three Wolves, *Canis lupus*, in the wild — Jim Holyan, Diane K. Boyd, Curtis M. Mack, and Daniel H. Pletscher 447

Observations of autumn courtship and breeding in Brown Bears, *Ursus arctos*, from coastal British Columbia — Owen T. Nevin and Barrie K. Gilbert 449

Long-distance movement by a dispersing Deer Mouse, *Peromyscus maniculatus*, in the boreal forest — Thomas S. Jung, Kieran S. O'Donovan, and Todd Powell 451

Movements of a two rabid Racoons, *Procyon lotor*, in eastern Ontario — Rick Rosatte, Mike Allan, Rob Warren, Peter Neave, Todd Babin, Luke Buchanan, Dennis Donavan, Kirk Soby, Chris Davies, Frances Muldoon, and Alex Wandeler 453

Common Loon, *Gavia immer*, nest attendance patterns recorded by remote video camera — Wing Goodale, Lee Attix, and David Evers 455

Short-tailed Shrew, *Blarina brevicauda*, apparently killed by Red Squirrel, *Tamiasciurus hudsonicus* — Robert W. Nero 456

Extension de l'aire de distribution de la Couleuvre à collier, *Diadophis punctatus*, dans l'est du Québec — Jean-François Desroches et Benoit Roussel 457

Do juvenile Nearctic River Otters, *Lontra canadensis*, contribute to fall sent marking? — Zach H. Olsen, Sadie S. Stevens, and Thomas I. Serfass 459

Book Reviews

Zoology: Damselflies of Alberta: Flying Neon Toothpicks in the Grass 462

Botany: Flower Guide for Holiday Weekends — Orchids of Manitoba 462

Environment: Environmentalism Unbound: exploring New Pathways — The Love of Nature and the End of the World: The Unspoken Dimensions of Environmental Concern — Survival by Hunting: Prehistoric Predators and Animal Prey — Wildlife, Conservation and Human Welfare: A United States and Canadian Perspective 463

New Titles 471

News and Comment

The Boreal Dip Net/L'Epuisette Boreale: Newsletter of the Canadian Amphibian and Reptile Conservation Network/ Reseau Canadien de Conservation des Amphibiens et des Reptiles 9(3) July 2005 — *Marine Turtle Newsletter* (109) July 2005 473

Minutes of the 126th Annual Business Meeting of The Ottawa Field-Naturalists' Club Tuesday 11 January 2005 474

Advice to Contributors 482

Mailing date of the previous issue 119(2): 13 June 2006

Articles

An analysis of parasites of a mid-winter population of the Snowshoe Hare, *Lepus americanus*, on insular Newfoundland during a cyclical peak
K. E. Bennett, E. M. Baggs, J. R. Finney-Crawley, and M. McGrath 323

Reconstructing changes in abundance White-tailed Deer, *Odocoilus virginianus*, Moose, *Alces alces,* and Beavers, *Castor canadensis*, in Algonquin Park, Ontario, 1860–2004
Norman W. S. Quinn 330

The distribution and habitat selection of introduced Grey Squirrels, *Sciurus carolinensis*, in British Columbia Emily K. Gonzales 343

The Flathead Minnow, *Pimephales promelas*, in New Brunswick
Dale J. Hood and Rudolph F. Stocek 351

Vision and its relationship to novel behaviour in St. Lawrence Greenland Sharks, *Somniosus microcephalus* Chris J. Harvey-Clark, Jeffrey J. Gallant, and John H. Batt 355

Characteristics d'une population introduit du Grand brochet, *Esox lucius*, dans le lac Ramsay, Parc de la Gatineau, Quebec, et impact sur l'ichthyofaune
Josiane Vachon, Brigitte Lavallee, et François Chapleau 359

Woodpecker nest tree characteristics in upper midwestern oak forests
Collette L. Adkins Giese and Francesca J. Cuthbert 367

Detectability of non-passerines using "pishing" in eastern Ontario woodlands
J. Ryan Zimmerling 377

Evidence of range expansion of eastern Coyotes, *Canis latrans*, in Labrador
Tony E. Chubbs and Frank R. Phillips 381

Consequences of Beaver, *Castor canadensis*, flooding on a small shore fen in southwestern Quebec Joyce M. Reddoch and Allan H. Reddoch 385

Long-eared Owls, *Asio otus*: A review of North American banding C. Stuart Houston 395

Cyclopyxis acmodonta n.sp. and *Arcella formosa* n.sp.: two new species of testate rhizopods (Arcellinida, Protozoa) from threatened wetlands in Ontario, Canada
Kenneth H. Nicholls 403

A range extension for the Rock Vole, *Microtus chrotorrhinus*, in Labrador Sarah W. Lansing 412

New records of vascular plants in the Yukon Territory VII
William J. Cody, Bruce Bennett, and Phil Caswell 417

Additions to the flora of the continental Northwest Territories from the Great Slave Lake area Paul M. Catling 437

(continued on inside back cover)

ISSN 0008-3550

Notes

Caching behavior by wintering Northern Saw-whet Owls, *Aegolius acadicus*
ARNOLD DEVINE and DWIGHT G. SMITH 578

First confirmation of Cougar, *Puma concolor,* in the Yukon THOMAS S. JUNG and PHILIP J. MERCHANT 580

First occurrence of the Round Goby, *Neogobius melanostomus,* in the St . Lawrence River at Cornwall, Ontario M. BRIAN MICKEY and ADRIENNE R. FOWLIE 582

Swift Fox, *Vulpes velox,* den located next to a railroad track in northwestern Texas
KERRY L. NICHOLSON, BRADY K. MCGEE, and WARREN BALLARD 584

Water-bears from the Rocky Mountains: A first look at Alberta's tardigrade fauna
MATTHEW J. BOECKNER and HEATHER C . PROCTOR 586

Mortality of Little Brown Bats. *Myotis lucifugus,* in a rodent trap in the boreal forest
THOMAS S . JUNG and BRIAN G . SLOUGH 589

Beavers, *Castor canadensis,* feeding on salmon carcasses: opportunistic use of a seasonally superabundant food source JEFFREY S. GLEASON, RYAN A. HOFFMAN, and JAMES M. WENDLAND 591

Book Reviews

ZOOLOGY: Arrivals and Rivals: A Birding Oddity — Band-tailed Pigeon: Wilderness Bird at Risk — Monitoring Bird Populations Using Mist Nets: Studies in Avian Biology #29 — Portraits of the Bison: An Illustrated Guide to Bison Society — The Buffalo Wolf, Predators, Prey, and the Politics of Nature — Grassland Grouse and Their Conservation — Crows: Encounters with the Wise Guys — Antipredator Defenses in Birds and Mammals — For the Love of Insects — Rare Bird: Pursuing the Mystery of the Marbled Murrelet 594

BOTANY: Canada' s Forests: A History 603

ENVIRONMENT: The Natural History of Bermuda – Saskatchewan Uncommon Views 604

MISCELLANEOUS: Manly Hardy (1832-1910): The Life and Writing of a Maine Fur-buyer, Hunter, and Naturalist — Audubon in Edinburgh and his Scottish Associates — A History of Devonshire Ornithology — Mapper of Mountains: M. P. Bridgland in the Canadian Rockies, 1902-1930 606

NEW TITLES 610

News and Comment

Marine Turtle Newsletter (110) — Saving the Wild: RENEW 2005 — Canadian Species at Risk August 2005 613

The Ottawa Field-Naturalists' Club Awards for 2004 614

Index to Volume 119 Compiled by LESLIE CODY 618

Advice for Contributors to The Canadian Field-Naturalist 650

Mailing date of the previous issue 119(3): 30 November 2006

Articles

Breeding and non-breeding range of Canada, *Branta canadensis,* and Cackling, *Branta hutchinsii,* Geese in the eastern Canadian Arctic
MARK L. MALLORY, ALAIN J. FONTAINE, and HUGH BOYD 483

A survey for federally listed grassland birds at First Nations Reserves
SCOTT D . STEVENS, and TROY I . WELLICOME 490

Addition to the flora of Canada? A specimen from the Arctic Archipelago, Northwest Territories, links two allopatric species of alkali grass, *Puccinellia*
L. L. CONSAUL, L. J. GILLESPIE, and K. L. MACINNES 497

"Prairie Grouse", *Tympanuchus cupido* × *phasianellus,* hybridization on Manitoulin Island, Ontario H. G. LUMSDEN 507

Plumage and internal morphology of the "Prairie Grouse", *Tympanuchus cupido* × *phasianellus* on Manitoulin Island, Ontario H. G. LUMSDEN 515

Response of Pale Swallow-wort, *Vincetoxicum rossicum,* following aboveground tissue loss: implications for the timing of mechanical control
CURTIS J. MCKAGUE and NAOMI CAPPUCCINO 525

Differential parental care by adult Mountain Plovers, *Charadrius montanus*
STEPHEN J. DINSMORE and FRITZ L. KNOFT 532

Body size distribution and frequency of anthropogenic injuries of Bluntnose Sixgill Sharks, *Hexanchus griseus,* at Flora Inlets, British Columbia
ROBERT DUNBRACK and ROBERT ZIELINSKI 537

Use of radio-telemetry to test for investigator effects on nesting Mallards, *Anas platyrhynchos*
TERRI D. THORN, ROBERT B. EMERY, DAVID W. HOWERTER, JAMES H . DEVRIES, and BRIAN L. JOYNT 541

Food habitats of dabbling ducks during fall migration in a prairie pothole system, Heron Lake, Minnesota RYAN M. WERSAL, BROCK R. MCMILLAN, and JOHN D. MADSEN 546

Body weights of adult and juvenile Northern Pocket Gophers, *Thomomys talpoides,* in central Alberta alfalfa fields GILBERT PROULX 551

Protocole de suivi des populations d' aster du Saint-Laurent, *Symphyotrichum laurentianum,* aux Iles-de-la-Madeleine GUILLAUME DE LAFONTAINE 556

Tree recruitment limitation by introduced Snowshoe Hares, *Lepus americanus,* on Kent Island, New Brunswick TEVOR S . PETERSON, AKANE UESUGI, and JOHN LIGHTER 569

Travel rates of Wolves, *Canis lupus,* in relation to ungulate kill sites in westcentral Alberta
GERALD W. KUZYK, CHRISTOPH ROHNER, and FIONA K. A. SCHMIEGELOW 573

(continued on inside back cover)

ISSN 0008-3550

THE CANADIAN FIELD-NATURALIST

Volume 119

2005

Volume 121
The Ottawa Field-Naturalists' Club Transactions)

Promoting the study and conservation
of northern biodiversity since 1880

THE OTTAWA FIELD-NATURALISTS' CLUB

OTTAWA CANADA